

From: Grennan, William [/O=BARD/OU=CRN AG/CN=RECIPIENTS/CN=WILLIAMG]
Date: 3/31/2004 4:28:55 PM
To: Blank, Thiemo [Thiemo.Blank@crbard.com], Darois, Roger [Roger.Darois@crbard.com]
CC: Koppenborg, Chris [Chris.Koppenborg@crbard.com], DeFord, John [John.DeFord@crbard.com], McDermott, Jack [Jack.McDermott@crbard.com]
Subject: RE: need advice for Polypropylen vendor

Thiemo,

I am sending out to your attention today 20 lbs of the Montell (Basell) PP-6523 resin. The Manufacturer's lot number is DA17BCC03.
The FedEx Tracking number is 6259 0385 8413.

Good luck with your molding trials.

Bill

-----Original Message-----

From: Blank, Thiemo
Sent: Monday, March 29, 2004 2:30 AM
To: Grennan, William; Darois, Roger
Cc: Koppenborg, Chris; DeFord, John; McDermott, Jack
Subject: RE: need advice for Polypropylen vendor

Bill,

Thanks a lot for immediate caring and the info below.

I can assure you that I understand the sensitivity of the supplier issue and therefore won't contact the supplier directly.

My best regards

Thiemo

-----Original Message-----

From: Grennan, William
Sent: Freitag, 26. März 2004 18:51
To: Blank, Thiemo; Darois, Roger
Cc: Koppenborg, Chris; DeFord, John; McDermott, Jack
Subject: RE: need advice for Polypropylen vendor

Thiemo,

I have requested a 10 kg sample of the Montell resin PP-6523 from our extrusion vendor. As soon as I receive it

I will immediately FedEx the sample to your attention at Angiomed. This PP material is the only one that we have access to.

However, I do know that Basell Polyolefins Company bought out Montell a few years ago and produces our Montell PP-6523 resin. They have a polypropylene manufacturing facility in Bayreuth, Germany that compounds a broad range of PP product. Below I have listed their product groups:

Moplen, pro-fax

Polypropylene homopolymer, random and impact copolymer products based on Ziegler-Natta catalysts

Metocene

Resin family based on single-site catalysts

Adstif

High crystallinity polypropylene with very high stiffness

Clyrell

Polyolefinic resins with an outstanding combination of transparency and impact strength

Pro-fax Ultra

High performance polypropylene resins

Once again we need to be certain that we don't contact the resin supplier directly due to the sensitivity of our implant application.

Possibly you could ask your injection molding source to request other resin samples for you. Let me know if I can be of further help.

Bill

Bill Grennan

Senior Advanced Manufacturing Engineer

Davol Inc.

100 Sockanossett Crossroad

Cranston, RI 02920 USA

Tel: 1-401-463-7000 x2814

Fax: 1-401-946-7130

E-mail: william.grennan@crbard.com

-----Original Message-----

From: Blank, Thiemo

Sent: Friday, March 26, 2004 8:05 AM

To: Grennan, William; Darois, Roger

Cc: Koppenborg, Chris; DeFord, John; McDermott, Jack

Subject: RE: need advice for Polypropylen vendor

Thanks Roger and Bill for your quick response -

I would very much like to make use of your offer to send us some samples for a trial. This way we avoid any potential confidentiality issues - since we do not need to contact the manufacturer or even disclose the material name and source to our microinjection partner.

5 -10 kg of the "Montell resin PP-6523" would be enough for us for a first shot.

If you have also access / or can recommend a PP material with a higher melt mass flow rate (better suited for a micro injection molding process) I would be very interested too.

Thanks again for your immediate help and best regards from Germany

Thiemo

-----Original Message-----

From: Grennan, William

Sent: Donnerstag, 25. März 2004 22:12

To: Darois, Roger; Blank, Thiemo

Cc: Koppenborg, Chris; DeFord, John; McDermott, Jack

Subject: RE: need advice for Polypropylen vendor

Dear Thiemo,

We currently purchase (2) different 6.3 mil polypropylene monofilaments for our mesh products that are extruded from polypropylene resins. We supply the extrusion equipment and our vendor purchases the resins and extrudes the monofilament for us. The (2) different resins are as follows:

-Phillips Marlex resin HGX-030-01

-Montell resin PP-6523

I have procurement specifications for the monofilament materials only (attached). However, you can access the resin manufacturer's web sites and print out copies of the actual resin specifications or I can request hard copies from our extrusion vendor and forward them to you. Let me know if you need additional information.

Bill

Bill Grennan

Senior Advanced Manufacturing Engineer

Davol Inc.

100 Sockanossett Crossroad

Cranston, RI 02920 USA

Tel: 1-401-463-7000 x2814

Fax: 1-401-946-7130

-----Original Message-----

From: Darois, Roger
Sent: Thursday, March 25, 2004 12:06 PM
To: Blank, Thiemmo
Cc: Koppenborg, Chris; Grennan, William; DeFord, John
Subject: RE: need advice for Polypropylen vendor

Dear Thiemmo,

I am forwarding your E-mail to one of our engineers, Bill Grennan who you might have met in Miami. He will send you information on the polypropylene resins we get from 2 different suppliers. We have full bio testing on file for a permanent implant we could share with you.

IMPORTANT...these suppliers will likely not be interested in a medical application due to product liability concerns. We purchase our polypropylene monofilament from an extrusion supplier who purchases the resin directly from the resin manufacturers. Thus, it is likely that they do not know of our implant application. Please do NOT mention Davol's name in any discussions with these manufacturers. In fact, I would advise purchasing the resin through a 3rd party, not the resin supplier to avoid a supply issue once the medical application is discovered.

If you need the resin we use for samples or trials, we can get you any amount you need so you do not have to talk to the resin manufacturer. Let me know if we can help further. With warm regards,

Roger Darois

-----Original Message-----

From: Blank, Thiemmo
Sent: Thursday, March 25, 2004 11:16 AM
To: Darois, Roger
Subject: need advice for Polypropylen vendor

Dear Roger,

It was nice meeting you at Miami

- hope you don't mind bothering you with the following request:

We are looking in a research project for a polypropylen polymer that can be used in combination with a stent for implantation into peripheral vascular arteries. I know that you have a lot of expertise with polypropylen.

Therefore I thought you might be able to name a vendor and brand name to me that you would think provides the best raw material from the biocomp. point of view.

Thanks a lot for your advice .

Best regards

Thiemmo

Thiemo Blank, PhD
Senior Manager Research and New Technology Progr.

Angiomed GmbH & Co

Medizintechnik KG

Wachhausstr. 6

76227 Karlsruhe

Germany

Phone: ++49 721 9445 332

Fax: ++49 721 9445 215

e-mail: thiemo.blank@crbard.com